

5040

Rep

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/517,420
Source: PT/10
Date Processed by STIC: 12/22/04

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/517,420

DATE: 12/22/2004

TIME: 09:16:01

Input Set : A:\B45311 SEQ LIST US.txt

Output Set: N:\CRF4\12222004\J517420.raw

5 <110> APPLICANT: CABEZON SILIVA, Teresa Elisa Virginia
6 ELLIS, Jonathan H.
7 GERARD, Catherine Marie Ghislaine
8 HAMBLIN, Paul A.
9 PALMANTIER, Remi, M.
10 VINALS Y DE BASSOLS, Carlota
12 <120> TITLE OF INVENTION: Immunogenic Compositions
14 <130> FILE REFERENCE: B45311
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/517,420
C--> 18 <141> CURRENT FILING DATE: 2004-12-08
18 <150> PRIOR APPLICATION NUMBER: PCT/EP03/06096
19 <151> PRIOR FILING DATE: 2003-06-06
21 <150> PRIOR APPLICATION NUMBER: GB 0213365.0
22 <151> PRIOR FILING DATE: 2002-06-11
24 <150> PRIOR APPLICATION NUMBER: GB 0300914.9
25 <151> PRIOR FILING DATE: 2003-01-15
27 <160> NUMBER OF SEQ ID NOS: 52
29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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33 <212> TYPE: PRT
34 <213> ORGANISM: Streptococcus pneumoniae
36 <400> SEQUENCE: 1
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38 1 5 10 15
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 21
43 <212> TYPE: PRT
44 <213> ORGANISM: Streptococcus pneumoniae
46 <400> SEQUENCE: 2
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48 1 5 10 15
49 Tyr Phe Asp Ser Ser
50 20
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 22
55 <212> TYPE: PRT
56 <213> ORGANISM: Streptococcus pneumoniae
60 <400> SEQUENCE: 3
61 Gly Tyr Met Leu Ala Asp Arg Trp Arg Lys His Thr Asp Gly Asn Trp
62 1 5 10 15
63 Tyr Trp Phe Asp Asn Ser
64 20

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67 <210> SEQ ID NO: 4
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69 <212> TYPE: PRT
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74 1 5 10 15
75 Phe Asn Glu Glu
76 20
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80 <211> LENGTH: 21
81 <212> TYPE: PRT
82 <213> ORGANISM: Streptococcus pneumoniae
84 <400> SEQUENCE: 5
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86 1 5 10 15
87 Leu Asp Ala Lys Glu
88 20
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 23
93 <212> TYPE: PRT
94 <213> ORGANISM: Streptococcus pneumoniae
96 <400> SEQUENCE: 6
97 Gly Ala Met Val Ser Asn Ala Phe Ile Gln Ser Ala Asp Gly Thr Gly
98 1 5 10 15
99 Trp Tyr Tyr Leu Lys Pro Asp
100 20
103 <210> SEQ ID NO: 7
104 <211> LENGTH: 142
105 <212> TYPE: PRT
106 <213> ORGANISM: Streptococcus pneumoniae
108 <400> SEQUENCE: 7
109 Gly Trp Gln Lys Asn Asp Thr Gly Tyr Trp Tyr Val His Ser Asp Gly
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111 Ser Tyr Pro Lys Asp Lys Phe Glu Lys Ile Asn Gly Thr Trp Tyr Tyr
112 20 25 30
113 Phe Asp Ser Ser Gly Tyr Met Leu Ala Asp Arg Trp Arg Lys His Thr
114 35 40 45
115 Asp Gly Asn Trp Tyr Trp Phe Asp Asn Ser Gly Glu Met Ala Thr Gly
116 50 55 60
117 Trp Lys Lys Ile Ala Asp Lys Trp Tyr Tyr Phe Asn Glu Glu Gly Ala
118 65 70 75 80
119 Met Lys Thr Gly Trp Val Lys Tyr Lys Asp Thr Trp Tyr Tyr Leu Asp
120 85 90 95
121 Ala Lys Glu Gly Ala Met Val Ser Asn Ala Phe Ile Gln Ser Ala Asp
122 100 105 110
123 Gly Thr Gly Trp Tyr Tyr Leu Lys Pro Asp Gly Thr Leu Ala Asp Arg
124 115 120 125
125 Pro Glu Phe Thr Val Glu Pro Asp Gly Leu Ile Thr Val Lys

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137 Asn Gly Thr Trp Tyr Tyr Phe Asp Ser Ser Gly Tyr Met Leu Ala Asp
138      20      25      30
139 Arg Trp Arg Lys His Thr Asp Gly Asn Trp Tyr Trp Phe Asp Asn Ser
140      35      40      45
141 Gly Glu Met Ala Thr Gly Trp Lys Lys Ile Ala Asp Lys Trp Tyr Tyr
142      50      55      60
143 Phe Asn Glu Glu Gly Ala Met Lys Thr Gly Trp Val Lys Tyr Lys Asp
144 65      70      75      80
145 Thr Trp Tyr Tyr Leu Asp Ala Lys Glu Gly Ala Met Val Ser Asn Ala
146      85      90      95
147 Phe Ile Gln Ser Ala Asp Gly Thr Gly Trp Tyr Tyr Leu Lys Pro Asp
148      100     105     110
151 <210> SEQ ID NO: 9
152 <211> LENGTH: 45
153 <212> TYPE: DNA
154 <213> ORGANISM: Streptococcus pneumoniae
156 <400> SEQUENCE: 9
157 ggctggcaga agaatgacac tggctactgg tacgtacatt cagac 45
159 <210> SEQ ID NO: 10
160 <211> LENGTH: 63
161 <212> TYPE: DNA
163 <213> ORGANISM: Streptococcus pneumoniae
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166 ggctcttatc caaaagacaa gtttgagaaa atcaatggca cttggtacta ctttgacagt 60
167 tca 63
169 <210> SEQ ID NO: 11
170 <211> LENGTH: 66
171 <212> TYPE: DNA
172 <213> ORGANISM: Streptococcus pneumoniae
174 <400> SEQUENCE: 11
175 ggctatatgc ttgcagaccg ctggaggaag cacacagacg gcaactggta ctggttcgac 60
176 aactca 66
178 <210> SEQ ID NO: 12
179 <211> LENGTH: 60
180 <212> TYPE: DNA
181 <213> ORGANISM: Streptococcus pneumoniae
183 <400> SEQUENCE: 12
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187 <210> SEQ ID NO: 13
188 <211> LENGTH: 63
189 <212> TYPE: DNA

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190 <213> ORGANISM: Streptococcus pneumoniae
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199 <213> ORGANISM: Streptococcus pneumoniae
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203 aaaccagac 69
205 <210> SEQ ID NO: 15
206 <211> LENGTH: 429
207 <212> TYPE: DNA
208 <213> ORGANISM: Streptococcus pneumoniae
210 <400> SEQUENCE: 15
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212 gacaagtttg agaaaatcaa tggcacttgg tactactttg acagttcagg ctatatgctt 120
213 gcagaccgct ggaggaagca cacagacggc aactgggtact ggctcgacaa ctcaggcgaa 180
214 atggctacag gctggaagaa aatcgctgat aagtgggtact atttcaacga agaagggtgcc 240
215 atgaagacag gctgggtcaa gtacaaggac acttgggtact acttagacgc taaagaaggc 300
216 gccatgggat caaatgcctt tatccagtca gcggacggaa caggctggta ctacctcaaa 360
217 ccagacggaa cactggcaga caggccagaa ttcacagtag agccagatgg cttgattaca 420
218 gtaaaataa 429
220 <210> SEQ ID NO: 16
221 <211> LENGTH: 336
222 <212> TYPE: DNA
223 <213> ORGANISM: Streptococcus pneumoniae
225 <400> SEQUENCE: 16
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227 tactactttg acagttcagg ctatatgctt gcagaccgct ggaggaagca cacagacggc 120
228 aactgggtact ggctcgacaa ctcaggcgaa atggctacag gctggaagaa aatcgctgat 180
229 aagtgggtact atttcaacga agaagggtgcc atgaagacag gctgggtcaa gtacaaggac 240
230 acttgggtact acttagacgc taaagaaggc gccatgggat caaatgcctt tatccagtca 300
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233 <210> SEQ ID NO: 17
234 <211> LENGTH: 1674
235 <212> TYPE: DNA
236 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 17
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240 ttgtgtgtca acctgctaac ctttggcctg gaggtgtgtt tggccgcagg catcacctat 120
241 gtgccgcctc tgtgtgtgga agtgggggta gaggagaagt tcatgaccat ggtgtgtggc 180
242 attggtccag tgtgtggcct ggtctgtgtc ccgtccttag gctcagccag tgaccactgg 240
243 cgtggacgct atggccgcgc ccggcccttc atctgggcac tgtccttggg catcctgctg 300
244 agcctctttc tcatcccaag ggccggctgg ctagcagggc tgtgtgtccc ggatcccagg 360
245 cccctggagc tggcactgct catcctgggc gtgggggtgc tggacttctg tggccagggtg 420
246 tgcttcactc cactggaggc cctgtctctc gacctcttcc gggacccgga ccactgtcgc 480
247 caggcctact ctgtctatgc cttcatgata agtcttgggg gctgcctggg ctacctcctg 540

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248 cctgccattg actgggacac cagtgccttg gccccctacc tgggcaccca ggaggagtgc 600
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250 gaggaggcag cgctgggccc caccgagcca gcagaagggc tgtcggcccc ctcttgtcg 720
251 cccactgct gtccatgccg gggccgcttg gctttccgga acctgggcgc cctgcttccc 780
252 cggctgcacc agctgtgctg ccgcatgccc cgcacctgc gccggctctt cgtggctgag 840
253 ctgtgcagct ggatggcact catgaccttc acgctgtttt acacggattt cgtgggcgag 900
254 gggctgtacc agggcggtgcc cagagctgag ccgggcaccg agggccggag acactatgat 960
255 gaaggcggtt ggatgggcag cctggggctg ttctgcagt gcgccatctc cctggtcttc 1020
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257 gtggcagctt tccctgtggc tggcggtgcc acatgcctgt cccacagtgt ggccgtggtg 1140
258 acagcttcag ccgccctcac cgggttcacc ttctcagccc tgcagatcct gccctacaca 1200
259 ctggcctccc tctaccaccg ggagaagcag gtgttcctgc ccaaataccg aggggacact 1260
260 ggagggtgta gcagtgagga cagcctgatg accagcttcc tgccaggccc taagcctgga 1320
261 gctcccttcc ctaatggaca cgtgggtgct ggaggcagtg gcctgctccc acctccaccc 1380
262 gcgctctgcg gggcctctgc ctgtgatgtc tccgtacgtg tgggtggtggg tgagcccacc 1440
263 gaggccaggg tggttccggg ccggggcacc tgccctggacc tcgccatcct ggatagtgcc 1500
264 ttctgtctgt ccaggtggc cccatccctg ttatgggt ccattgtcca gctcagccag 1560
265 tctgtcactg cctatatggt gtctgccgca ggccctgggtc tggtcgccat ttactttgct 1620
266 acacaggtag tatttgacaa gagegacttg gccaaatact cagcgtaggt cgag 1674
268 <210> SEQ ID NO: 18
269 <211> LENGTH: 1947
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Hybrid gene between St. pneum. C-LytA, P2 T helper
275 epitope and human P501S.
277 <400> SEQUENCE: 18
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280 aggaagcaca cagacggcaa ctggtactgg ttcgacaact caggcgaaat ggctacaggc 180
281 tgggaagaaa tcgctgataa gtggtactat ttcaacgaag aaggtgccat gaagacaggc 240
282 tgggtcaagt acaaggacac ttggtactac ttagacgcta aagaaggcgc catgcaatac 300
283 atcaaggcta actctaagtt cattggtatc actgaaggcg tcatggtatc aaatgccttt 360
284 atccagtcag cggacggaac aggttggtac tacctcaaac cagacggaac actggcagac 420
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296 cccgcacccc tgcgcgggtt cttcgtgggt gagctgtgca gctggatggc actcatgacc 1140
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VERIFICATION SUMMARY

DATE: 12/22/2004

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Input Set : A:\B45311 SEQ LIST US.txt

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L:16 M:270 C: Current Application Number differs, Replaced Current Application Number

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date